

**Amendments to the Specification:**

Please replace line 18, page 20 with the following amendment:

$b_{ij}$  = value of network parameter before update -  ~~$\eta \times \delta_{ij}$~~   $\eta \times \delta_{ij}$ ;

Please replace the paragraph beginning on page 12, line 12 with the following amended paragraph:

The network parameters of the neural network shown in Fig. 4 are :  $r=3$ ,  $m=2$ ,  $n=9$ ;  
choose  $K=10$ ; choose initial value  ~~$w_{ijk}$~~   $W_{ijk}$  (0) and  $b_{ij}$  (0) for network parameters  $W_{ijk}$   
and  $b_{ij}$  respectively and then input them to the neural network; input  $x(10T)$  to  $x_m(KT)$  of  
the neural network; input  $x(9T)$  to  $x_m[(k-1)T]$ ; input  $x(8T)$  to  $x_m[(k-2)T]$ , and input  $x(7T)$   
to  $x_m[(k-3)T]$ , ..., input  $x(T)$  to  $x_m[(k-9)T]$ .

Please replace line 17, page 14 with the following amendment:

Multiply  $-Me(kT)$  with  $\Omega(V_{ij})$  to calculate  $\delta_{ij}$ , i.e., in Fig. 4,  $\delta_{21} = \Omega(V_{21})$   ~~$Me(10T)$~~   
 $x[-Me(10T)]$ ;

Please replace line 2, page 16 with the following amendment:

$w_{122}(0)$ ,  $w_{123}(0)$ ,  $b_{21}(0)$ ,  $w_{131}(0)$ ,  $w_{132}(0)$ ,  $w_{133}(0)$ ,  ~~$b_{21}(0)$~~   $b_{31}(0)$